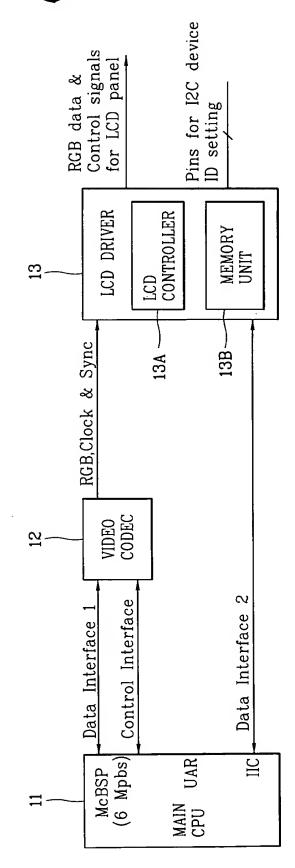
TOUETT OZTZOOOT FIG 1A









# FIG. 1B

## 3 Mode Operation

## Active Mode(Data Interface 1):

- -JPEG,GIF
- -MPEG4 -MP3(128kbps).AAC
- Animation (Game)
- -Text Service

### Standby Mode(Data Interface 2):

-Animation, Still Image & Text, Text only

### Power Down Mode

-LCD Driver IC power off, but SRAM is alive

## Display Scheme

### Active Mode

- -Normal Operation
- -Main CPU, Video CODEC and LCD driver IC are all alive
- -LCD display frame rate of ~30 frames/sec

### Standby Mode

- -Power Saving Mode(Video CODEC is powered off)
- -Animation or Still Image & Text or Text can be displayed
- -LCD display frame rate of~5 frames/sec

### Power Down Mode

-Nothing is displayed, Ready for displaying

## FIG. 2

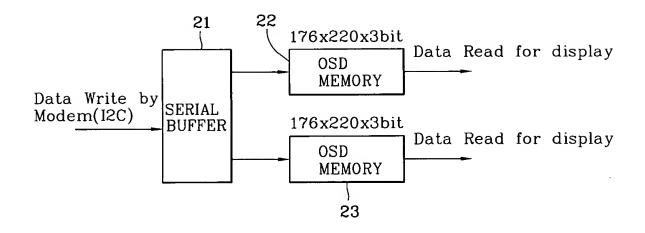
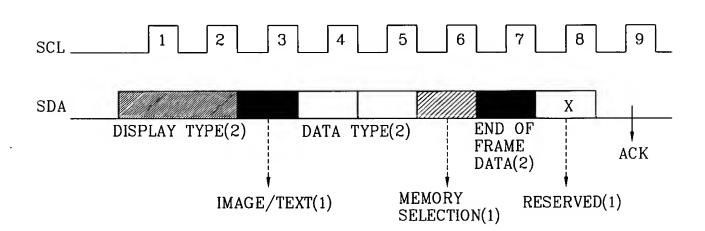


FIG. 3



DISPLAY TYPE(2bits)

00: ANIMATION

01: STILL IMAGE & TEXT

10: TEXT ONLY

11: REGISTER CONTROL

IMAGE/TEXT(1bit)

O: TEXT DATA

1: IMAGE DATA

DATA TYPE(2bit)

00: BURST DATA 01: AREA DATA

10: LINE DATA 11: PIXEL DATA

OSD MEMORY SELECTION(1bit)

0:OSD MEMORY 1(FIRST)

1: OSD MEMORY 2(SECOND)

END OF FRAME DATA(1bit)

0: NOT EOFD

1: EOFD

# FIG. 4

### IMAGE DATA REPRESENTATION(3bits)

TEXT DATA REPRESENTATION(1bit)
0: BACKGROUND DATA

1: TEXT DATA

000: BLACK

001: BLUE

010: GREEN

011: CYAN

100: RED

101: MAGENTA

110: YELLOW

111: WHITE

FIG. 5

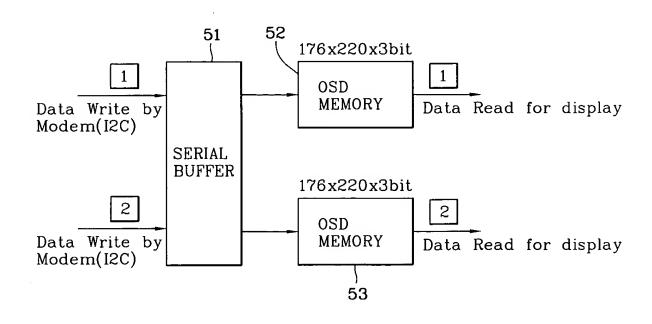


FIG. 6

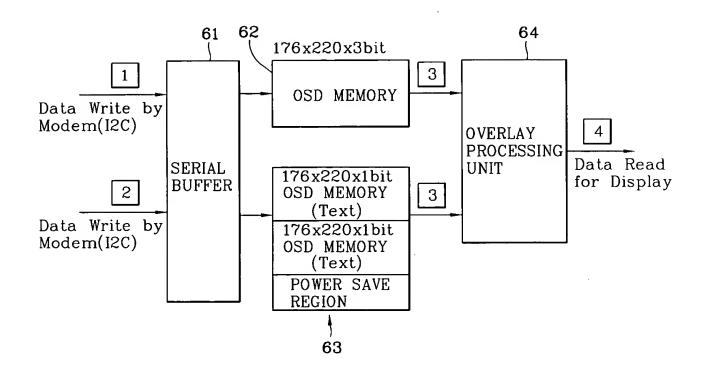
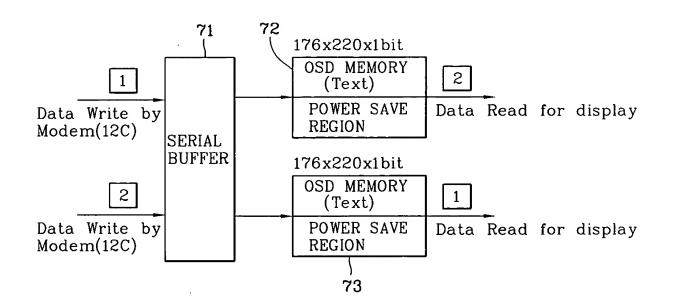
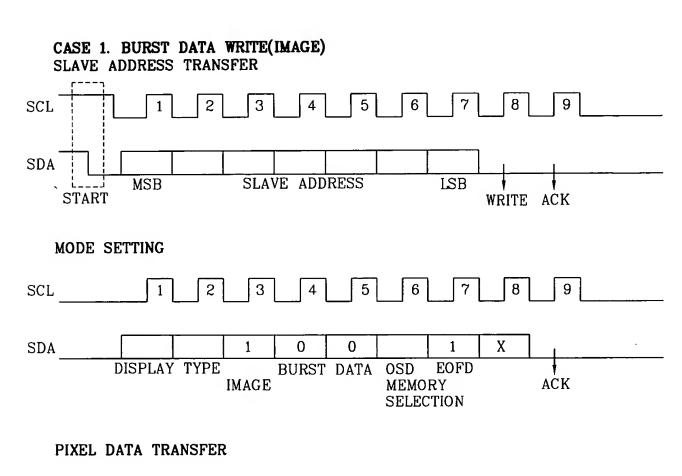


FIG. 7



# FIG. 8A



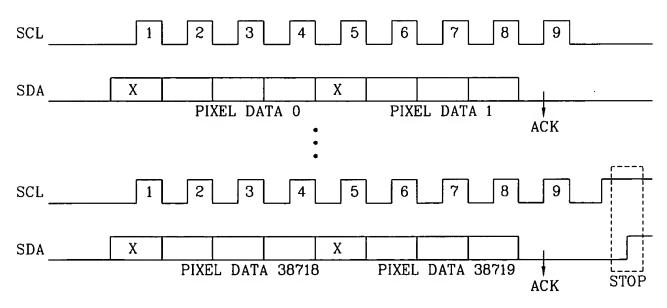


FIG. 8B

# CASE 2. AREA DATA WRITE(IMAGE) SLAVE ADDRESS TRANSFER

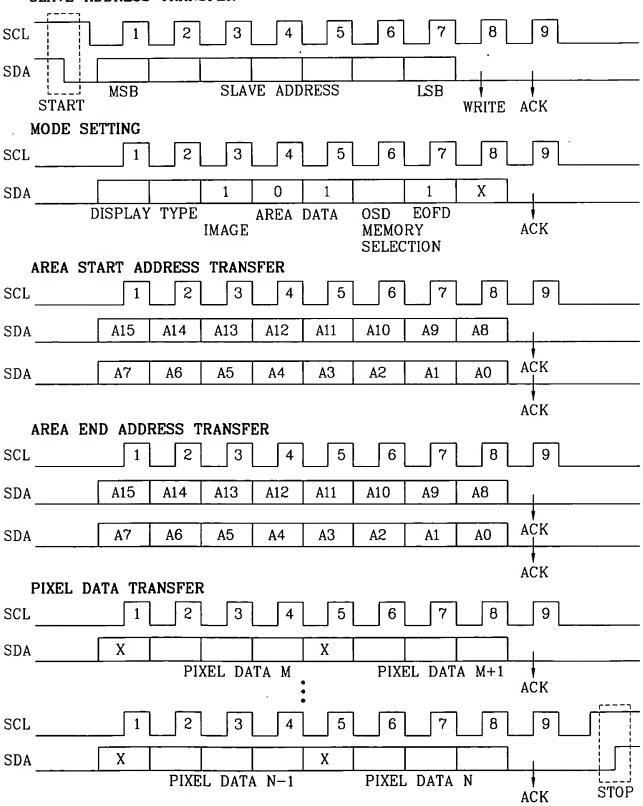
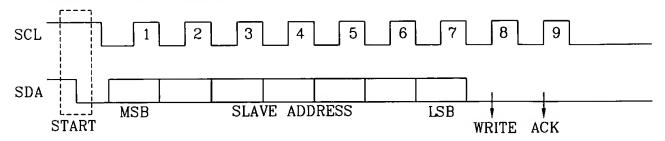
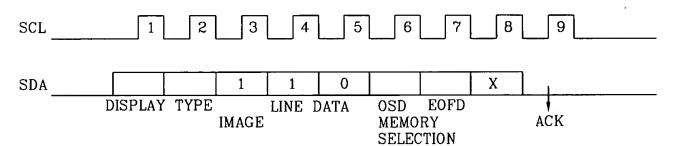


FIG. 8C

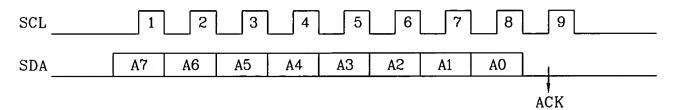
# CASE 3. LINE DATA WRITE(IMAGE) SLAVE ADDRESS TRANSFER



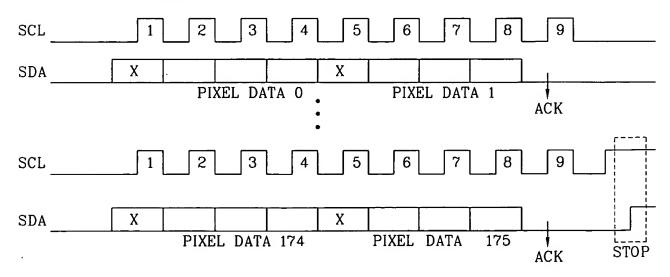
### MODE SETTING



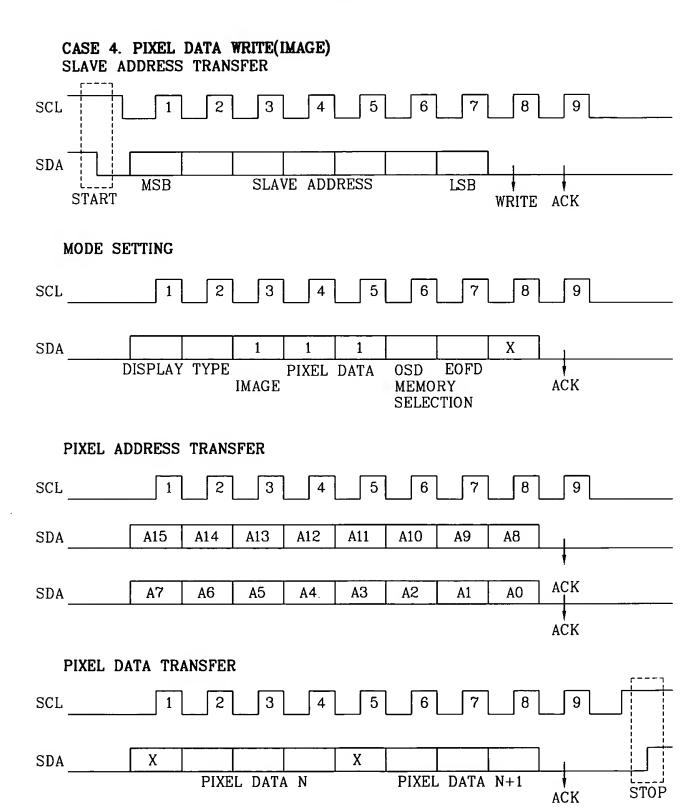
### LINE ADDRESS TRANSFER

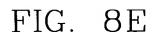


### PIXEL DATA TRANSFER



## FIG. 8D





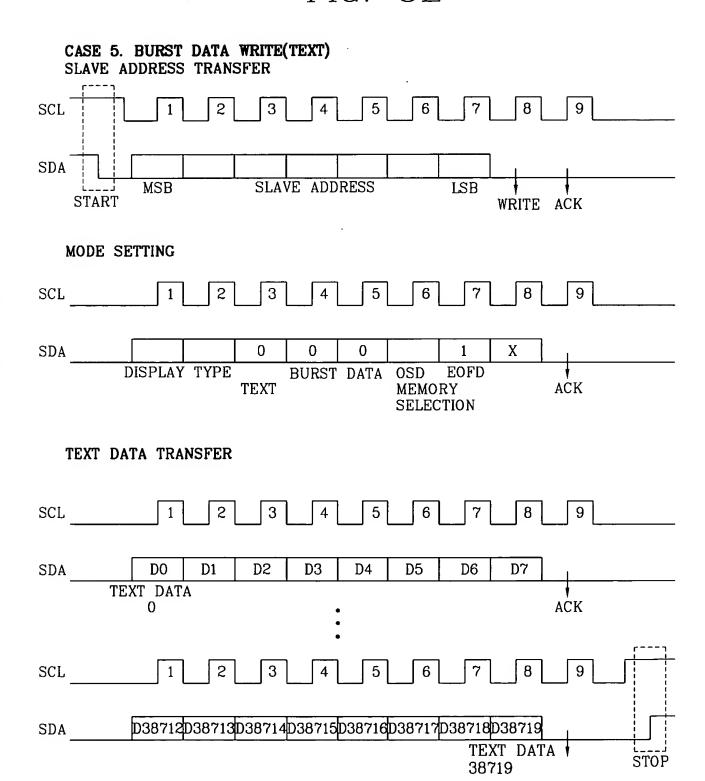


FIG. 8F

# CASE 6. AREA DATA WRITE(TEXT) SLAVE ADDRESS TRANSFER

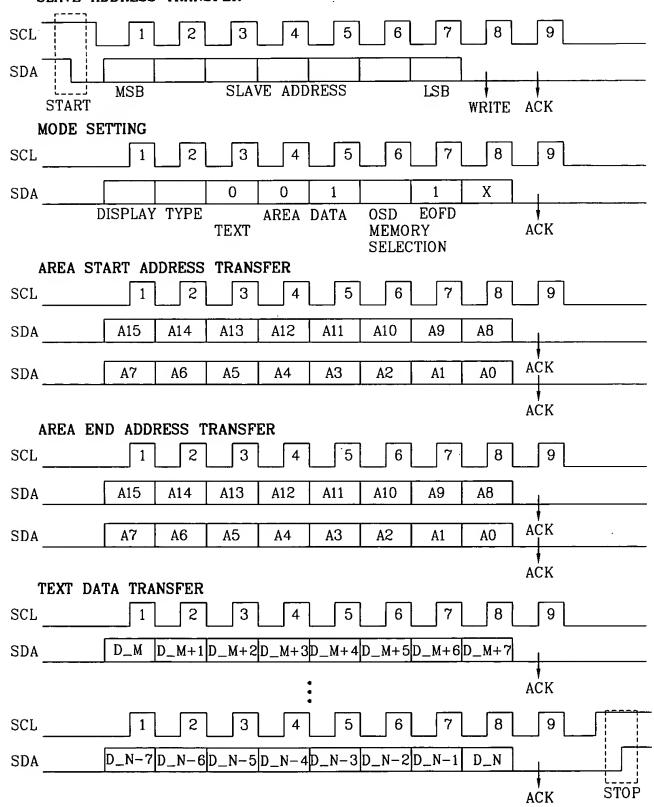
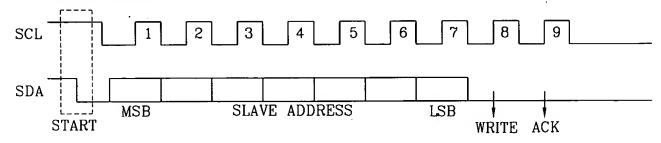


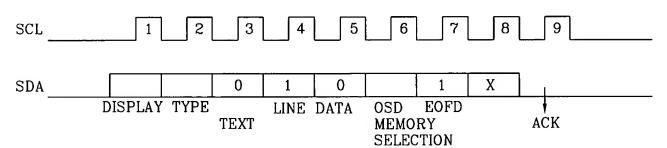


FIG. 8G

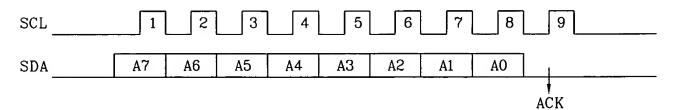




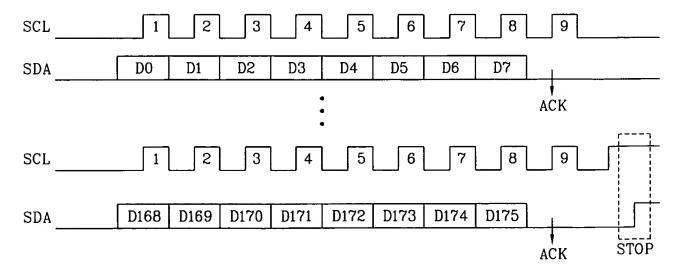
### MODE SETTING



#### LINE ADDRESS TRANSFER



### TEXT DATA TRANSFER





ACK

# FIG. 8H

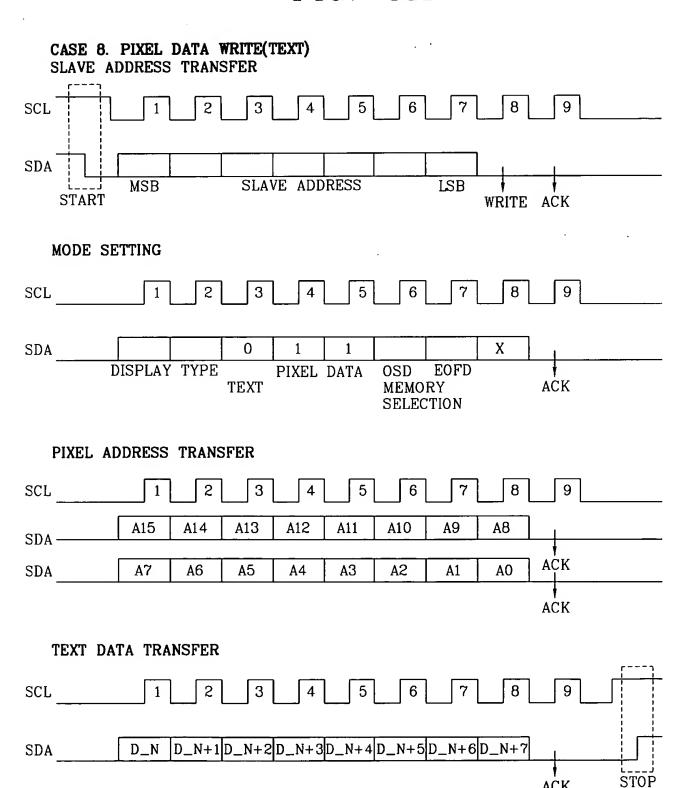






FIG. 9

